

REMARKS

Applicants respectfully provide the following remarks related to the drawing, specification and claim amendments submitted above.

Drawing Amendments

The changes to Figs. 1(i), 2, 3, 5 and 8 of the drawings were made to correct typographical errors, to correct differences between the original drawings and the patent publication, to eliminate duplicate numbers being used for different elements, or to provide element numbers for elements described in the specification but missing element numbers in the drawings. No new subject matter has been added by the amendments to the drawings.

With respect to Fig. 1(i), the label “PRIOR ART” has been added to the figure, as it was labeled in the originally submitted drawings.

With respect to Fig. 2, a typographical error in the spelling of the word “privilege” has been corrected.

With respect to Fig. 3, “MEDIA LIBRARY” used duplicate number 106, AND “NEAR LINE ARCHIVAL STORAGE CHANNEL” used duplicate number 100. These numbers have been changed to unused element numbers 109 and 130, respectively. Element number 64 has been added to “XBUS,” as discussed with respect to Fig. 3 in the patent text at col. 9, line 46.

Also in Fig. 3, the “μP” in the “CACHE MEMORY & CONTROL UNIT” has been changed to 58, as it was labeled in the originally submitted drawings. In addition, the connections from the “CACHE MEMORY & CONTROL UNIT” to the “XBUS” and the “CPU BUS” are drawn in as they were in the originally submitted drawings.

With respect to Fig. 5, element 54 has been changed to 46, as discussed in the patent text at col. 10, lines 24-25 and col. 10, line 48.

With respect to Fig. 8, “SDCU” used duplicate number 99, “USER INPUT” used duplicate number 102, and “DISK ALLOCATION TABLE” used duplicate number 104.

These numbers have been changed to unused element numbers 99, 107 and 125, respectively.

Also in Fig. 8, element number 24 has been added to “DISK CONTROLLER,” the same element number used for the “DISK CONTROLLER” shown in Fig. 2.

Finally, in Fig. 8 the commands “PARITY GEN DA 107A,” “PARITY GEN A 107B,” AND “LU MIRROR SEL 107C” have been added. This change to the drawing was submitted in the original application in an amendment mailed on July 23, 1998, and was allowed by that Examiner in a Notice of Allowability mailed on Sept. 28, 1998. The element numbers for these commands have been changed from “102x” to “107x” in accordance with the change of “USER INPUT” to element number “107.”

Specification Amendments

Many changes to the specification were made to correct minor typographical or grammatical errors in the text, and generally are self-explanatory. Some changes to the specification that may require further explanation (e.g., for understanding or for providing support) are discussed individually below. No new subject matter has been added by the amendments to the specification.

The changes to the “Description of the Drawings” section in col. 4 of the patent have been made correctly correspond the specific descriptions with the appropriate figures.

In col. 7, lines 25 and 57, and in col. 11, line 21, “tables 24” has been changed to “tables 25,” so that the text corresponds to the element number shown in Fig. 2.

In col. 8, lines 39 and 42, and in col. 10, line 34, “line 18” has been changed to “line 32,” so that the text corresponds to the element number shown in Fig. 3.

In col. 10, line 66, “CPU bus 66” has been changed to “CPU bus 52,” so that the text corresponds to the element number shown in Fig. 3.

In col. 10, line 58, “microprocessor 58” has been changed to “microprocessor 50,” so that the text corresponds to the element number shown in Fig. 5.

In col. 11, line 1, element number 100 has been changed to 130 in accordance with the Fig. 3 drawing change discussed above.

In col. 11, line 6, element number 106 has been changed to 109 in accordance with the Fig. 3 drawing change discussed above.

In col. 14, line 44, in col. 18, line 60, and in col. 19, line 12, the three commands, LU Mirror Sel, ParityGenDA, and ParityGenA, have been given new element numbers in accordance with the Fig. 8 drawing change discussed above.

In col. 15, lines 53, 58, 60 and 63, and in col. 16, line 11, element number 100 has been changed to 99 in accordance with the Fig. 8 drawing change discussed above.

In col. 16, line 3, in col. 18, line 59, and in col. 19, line 11, element number 102 has been changed to 107 in accordance with the Fig. 8 drawing change discussed above.

In col. 16, lines 5, 10 and 67, element number 104 has been changed to 125 in accordance with the Fig. 8 drawing change discussed above.

In col. 16, line 42, element number 25 has been changed to 24 in accordance with the Fig. 8 drawing change discussed above.

In col. 18, line 8, “Logical Unit (LUN) 96” has been changed to “Logical Unit (LUN) 100,” so that the text corresponds to the element number shown in Fig. 7.

In col. 19, lines 64 and 66, “Parity Generator 126” has been changed to “Parity Generator 128,” so that the text corresponds to the element number shown in Fig. 8.

Claim Amendments

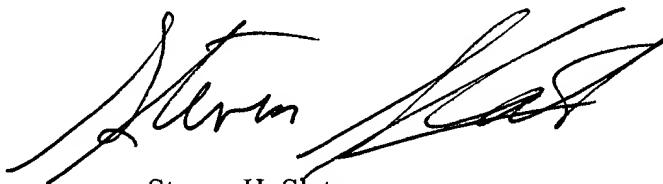
Claims 1 – 10 are unamended from their form in U.S. Patent 5,893,919. Claims 11 – 36 were added in a first Preliminary Amendment. Claim 29 has been amended and claims 37 – 165 have been added by this Supplemental Preliminary Amendment.

Claims 11 – 165 have been added to more comprehensively claim the subject invention. No new subject matter has been added by the claims, and the new claims are fully supported in the specification, as illustrated in the attached Appendix entitled Status Of Claims And Support For Claim Changes, as required under 37 CFR 1.173(c). The support shown in the Appendix is by way of example only. Other support than that specifically cited in the Appendix may be found in the specification, drawings, and original claims, as well.

Conclusion

Please charge any additional fees due, or credit any overpayment, to Deposit Account No. 50-1065. Applicants respectfully submit that claims 1 – 165 are in condition for allowance, and request that the Examiner pass the case to issuance. Applicants also request that the Examiner call the below listed attorney to resolve any remaining problems.

Respectfully submitted,



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APPENDIX
STATUS OF CLAIMS AND
SUPPORT FOR CLAIM CHANGES

Claim	Status	Support
1	pending	unamended
2	pending	unamended
3	pending	unamended
4	pending	unamended
5	pending	unamended
6	pending	unamended
7	pending	unamended
8	pending	unamended
9	pending	unamended
10	pending	unamended
11	pending	Figs. 3, 7a, 7b; Col. 12, Line 45 – Col. 15, Line 35
12	pending	Col. 15, Lines 18-35
13	pending	Col. 3, Line 18 – Col. 4, Line 32; Col. 15, Lines 18-35
14	pending	Fig. 7a; Col. 12, Lines 55-67
15	pending	Fig. 7b; Col. 14, Line 38 – Col. 15, Line 35
16	pending	Fig. 7b; Col. 14, Line 28 – Col. 15, Line 35
17	pending	Figs. 3, 7a, 7b; Col. 12, Line 45 – Col. 15, Line 35
18	pending	Col. 15, Lines 18-35
19	Pending	Col. 3, Line 18 – Col. 4, Line 32; Col. 15, Lines 18-35
20	pending	Fig. 7a; Col. 12, Lines 55-67
21	pending	Fig. 7b; Col. 14, Line 38 – Col. 15, Line 35
22	pending	Fig. 7b; Col. 14, Line 28 – Col. 15, Line 35
23	pending	Figs. 3, 7a, 7b; Col. 12, Line 45 – Col. 15, Line 35
24	pending	Col. 15, Lines 18-35
25	pending	Col. 3, Line 18 – Col. 4, Line 32; Col. 15, Lines 18-35
26	pending	Fig. 7a; Col. 12, Lines 55-67

Claim	Status	Support
27	pending	Fig. 7b; Col. 14, Line 38 – Col. 15, Line 35
28	pending	Fig. 7b; Col. 14, Line 28 – Col. 15, Line 35
29	pending	Fig. 7a; Col. 13, Lines 5-14
30	pending	Col. 15, Lines 18-35
31	pending	Col. 3, Line 18 – Col. 4, Line 32; Col. 15, Lines 18-35
32	pending	Fig. 7a; Col. 12, Lines 55-67
33	pending	Fig. 7b; Col. 14, Line 38 – Col. 15, Line 35
34	pending	Fig. 7b; Col. 14, Line 28 – Col. 15, Line 35
35	pending	Fig. 3; Col. 3, Line 56 – Col. 4, Line 32; Col. 18, Line 26 – Col. 20, Line 45
36	pending	Fig. 3; Col. 3, Line 56 – Col. 4, Line 32; Col. 18, Line 26 – Col. 20, Line 45
37	pending	Fig. 3; Col. 3, Line 56 – Col. 4, Line 32; Col. 18, Line 26 – Col. 20, Line 45
38	pending	Col. 12, Lines 55-66
39	pending	Fig. 7b; Col. 14, Line 38 – Col. 15, Line17
40	pending	Fig. 3; Col. 3, Line 56 – Col. 4, Line 32; Col. 18, Line 26 – Col. 20, Line 45
41	pending	Fig. 7b; Col. 14, Line 38 – Col. 15, Lin 17
42	pending	Fig. 3; Col. 4, Lines 4 – 32
43	pending	Fig. 3; Col. 3, Line 56 – Col. 4, Line 32; Col. 18, Line 26 – Col. 20, Line 45
44	pending	Fig. 7b; Col. 14, Line 38 – Col. 15, Lin 17
45	pending	Fig. 7b; Col. 14, Line 38 – Col. 15, Lin 17
46	pending	Figs. 7a, 7b; Col 3, Line 55 – Col. 4, Line 32
47	pending	Col. 3, Lines 49-54
48	pending	Fig. 7a; Col. 12, Lines 45-67
49	pending	Figs. 7a, 7b; Col. 13, Lines 15-32
50	pending	Fig. 7b; Col. 14, Line 28 – Col. 15, Line35
51	pending	Figs. 3, 4; Col. 10, Lines 21-47
52	pending	Fig. 4; Col. 10, Lines 21-47
53	pending	Fig. 3; Col. 7, Lines 20-47

Claim	Status	Support
54	pending	Fig. 8; Col 16, Lines 25-43
55	pending	Figs. 3, 5; Col. 7, Lines 48-53; Col. 8, Line 61 – Col. 9, Line 47
56	pending	Fig. 3; Col. 3, Line 56 – Col. 4, Line 32; Col. 18, Line 26 – Col. 20, Line 45
57	pending	Fig. 7b; Col. 14, Line 38 – Col. 15, Lin 17
58	pending	Col. 4, Lines 9-32
59	pending	Co. 4, Lines 9-32
60	pending	Col. 3, Line 18-Col. 4, Line 32
61	pending	Figs. 2, 3; Col. 18, Lines 57-63; Col 16, Lines 1-17
62	pending	Fig. 3; Col. 11, Line 12 – Col. 12, Line 15; Col. 9, Lines 29-39
63	pending	Fig. 3; Col. 11, Line 53 – Col. 12, Line 15; Col. 9, Lines 29-39
64	pending	Fig. 3; Col. 3, Line 56 – Col. 4, Line 32; Col. 18, Line 26 – Col. 20, Line 45; Col. 9, Line 40 – Col. 10, Line 20
65	pending	Figs. 2, 3; Col. 5, Line 54 – Col. 6, Line 18
66	pending	Col. 11, Lines 11-22; Col. 7, Lines 20-56; Col. 15, Lines 36-50; Col 16, Lines 25-52
67	pending	Col. 15, Lines 51-67
68	pending	Fig. 7b; Col. 14, Line 38 – Col. 15, Lin 17
69	pending	Fig. 7b; Col. 14, Line 38 – Col. 15, Lin 17
70	pending	Fig. 3; Col. 7, Lines 20-47
71	pending	Fig. 3; Col. 11, Line 12 – Col. 12, Line 15
72	pending	Fig. 3; Col. 3, Lines 6-8
73	pending	Fig. 3; Col. 9, Lines 29-34; Col. 3, Line 19 – Col. 4, line 32
74	pending	Figs. 3, 4; Col. 10, Lines 21-47
75	pending	Col. 8, Lines 39-50
76	pending	Fig. 3; Col. 9, Lines 40-47
77	pending	Fig. 3; Col. 9, Lines 40-47
78	pending	Fig. 3; Col 8, Line 61 – Col. 9, Line 28
79	pending	Fig. 7b; Col 14, Line 28 – Col. 15, Line 17
80	pending	Col. 3, Line 18-Col. 4, Line 32
81	pending	Col. 3, Line 18-Col. 4, Line 32

Claim	Status	Support
82	pending	Col. 3, Line 18-Col. 4, Line 32
83	pending	Col 13, Lines 5-25
84	pending	Figs. 3, 7b; Col 14, Line 28 – Col. 15, Line 17; Col 18, Line 57 – Col. 19, Line 67
85	pending	Col. 12, Line 45 – Col. 13, Line 4
86	pending	Fig. 3; Col. 8, Line 61 – Col. 9, Line 28; Col. 9, Line 66 – Col. 10, Line 8
87	pending	Col. 11, Lines 11-22; Col. 7, Lines 20-56; Col. 15, Lines 36-50; Col 16, Lines 25-52
88	pending	Figs. 7a, 7b; Col. 3, Line 18 – Col. 4, Line 32
89	pending	Col. 13, Lines 5-32
90	pending	Fig. 3; Col. 8, Line 63 – Col. 9, Line 3
91	pending	Fig. 3; Col. 9, Lines 40-47
92	pending	Figs. 3, 4; Col. 10, Lines 21-47
93	pending	Fig. 3; Col. 11, Line 12 – Col. 12, Line 15; Col. 9, Lines 29-39
94	pending	Figs. 3, 7a, 7b; Col. 3, 18 – Col. 4, Line 32
95	pending	Fig. 3; Col. 9, Lines 40-47
96	pending	Col. 12, Line 45 – Col. 13, Line 4
97	pending	Col. 3, 18 – Col. 4, Line 32
98	pending	Figs. 7a, 7b; Col. 14, Lines 4-27
99	pending	Fig. 7b; Col. 14, Line 28 – Col. 15, Line 35
100	pending	Figs. 3, 7a, 7b; Col. 3, 18 – Col. 4, Line 32
101	pending	Fig. 3; Col. 8, Line 25 – Col. 4, Line 3
102	pending	Fig. 7a; Col. 13, Lines 5 – 15
103	pending	Fig. 3; Col. 8, Line 61 – Col. 9, Line 28; Col. 9, Line 66 – Col. 10, Line 8
104	pending	Fig. 7a; Col. 13, Lines 26-32
105	pending	Col. 3, Line 18 – Col. 4, Line 32
106	pending	Col. 3, Line 18 – Col. 4, Line 32
107	pending	Col. 3, Line 18 – Col. 4, Line 32
108	pending	Fig. 3; Col. 11, Line 12 – Col. 12, Line 15; Col. 9, Lines 29-39
109	pending	Col. 18, Line 27 – Col. 19, Line 67

Claim	Status	Support
110	pending	Figs. 2, 3; Col. 7, Lines 20-39; Col. 16, Lines 1-17
111	pending	Fig. 7b; Col. 14, Line 58 – Col. 15, Line 17
112	pending	Figs. 7a, 7b; Col. 3, Line 18 – Col. 4, Line 32
113	pending	Col. 8, Line 61 – Col. 9, Line 3; Col. 9, Line 63 – Col. 10, Line 13
114	pending	Col. 13, Lines 5-32
115	pending	Col. 3, Line 18 – Col. 4, Line 32
116	pending	Figs. 7a, 7b; Col. 3, Line 18 – Col. 4, Line 32; Col. 14, Line 58 – Col. 15, Line 35; Col. 18, Line 57 – Col. 19, Line 59
117	pending	Col. 19, Lines 8-67
118	pending	Figs. 7a, 7b; Col 13, Lines 5-32; Col. 3, Line 18 – Col. 4, Line 32; Col. 14, Line 58 – Col. 15, Line 35; Col. 18, Line 57 – Col. 19, Line 59
119	pending	Fig. 7b; Col. 14, Lines 38-57
120	pending	Col. 13, Lines 5-32
121	pending	Col. 8, Line 63 – Col. 9, Line 3; Col. 9, Line 63 – Col. 10, Line 14
122	pending	Fig. 7b; Col. 4, Lines 10-32
123	pending	Figs. 3, 7b; Col. 4, Lines 10-32
124	pending	Fig. 3; Col. 9, Lines 63 – 66
125	pending	Figs. 7a, 7b; Col. 3, Line 18 – Col. 4, Line 32
126	pending	Col. 3, Line 18 – Col. 4, Line 32
127	pending	Col. 3, Line 18 – Col. 4, Line 32
128	pending	Figs. 3, 7a, 7b; Col. 3, Line 18 – Col. 4, Line 32
129	pending	Fig. 3; Col. 9, Lines 63 – 66
130	pending	Figs. 7a, 7b; Col. 3, Line 18 – Col. 4, Line 32; Col. 13, Lines 5 – 32
131	pending	Fig. 2; Col. 7, Lines 20-25
132	pending	Col. 13, Lines 5 – 32
133	pending	Figs. 7a, 7b; Col. 3, Line 18 – Col. 4, Line 32
134	pending	Figs. 7a, 7b; Col. 3, Line 18 – Col. 4, Line 32
135	pending	Figs. 7a, 7b; Col. 3, Line 18 – Col. 4, Line 32
136	pending	Figs. 7a, 7b; Col. 3, Line 18 – Col. 4, Line 32

Claim	Status	Support
137	pending	Fig. 7b; Col. 14, Line 28 – Col. 15, Line 35
138	pending	Figs. 2, 3; Col. 18, Lines 57-63; Col 16, Lines 1-17
139	pending	Figs. 3, 7a, 7b; Col. 19, Lines 54-67
140	pending	Col. 4, Lines 9-32
141	pending	Col. 18, Line 49 – Col. 19, Line 15
142	pending	Fig. 7b; Col. 14, Line 28 – Col. 15, Line 35
143	pending	Figs. 2, 3, 7a, 7b; Col. 3, Line 18 – Col. 4, Line 32; Col. 14, Line 28 – Col. 15, Line 35
144	pending	Fig. 7b
145	pending	Figs. 2, 3, 4; Col. 10, Lines 21-47
146	pending	Col. 8, Line 63 – Col. 9, Line 3
147	pending	Fig. 3; Col. 3, Line 56 – Col. 4, Line 32; Col. 18, Line 26 – Col. 20, Line 45; Col. 3, Line 18 – Col. 4, Line 32
148	pending	Fig. 3; Col. 3, Line 56 – Col. 4, Line 32; Col. 18, Line 26 – Col. 20, Line 45; Col. 3, Line 18 – Col. 4, Line 32
149	pending	Col. 18, Line 57 – Col. 19, Line 59
150	pending	Figs. 3, 7a, 7b; Col. 3, Line 56 – Col. 4, Line 32; Col. 18, Line 26 – Col. 20, Line 45; Col. 3, Line 18 – Col. 4, Line 32
151	pending	Figs. 3, 7a, 7b; Col. 3, Line 56 – Col. 4, Line 32; Col. 18, Line 26 – Col. 20, Line 45; Col. 3, Line 18 – Col. 4, Line 32
152	pending	Figs. 3, 7a, 7b; Col. 3, Line 56 – Col. 4, Line 32; Col. 18, Line 26 – Col. 20, Line 45; Col. 3, Line 18 – Col. 4, Line 32
153	pending	Fig. 7b; Col. 14, Line 38 – Col. 15, Lin 17
154	pending	Figs. 7a, 7b; Col 3, Line 55 – Col. 4, Line 32
155	pending	Fig. 3; Col. 3, Line 56 – Col. 4, Line 32; Col. 18, Line 26 – Col. 20, Line 45; Col. 9, Line 40 – Col. 10, Line 20
156	pending	Figs. 2, 3; Col. 5, Line 54 – Col. 6, Line 18
157	pending	Col. 11, Lines 11-22; Col. 7, Lines 20-56; Col. 15, Lines 36-50; Col 16, Lines 25-52
158	pending	Col. 3, Line 18 – Col. 4, Line 32
159	pending	Col. 3, Line 18 – Col. 4, Line 32
160	pending	Col. 3, Line 18 – Col. 4, Line 32
161	pending	Figs. 7a, 7b; Col. 3, Line 18 – Col. 4, Line 32
162	pending	Col. 3, Line 18 – Col. 4, Line 32
163	pending	Fig. 3; Col. 3, Line 56 – Col. 4, Line 32; Col. 18, Line 26 – Col. 20, Line 45; Col. 3, Line 18 – Col. 4, Line 32
164	pending	Col. 18, Line 57 – Col. 19, Line 59
165	pending	Figs. 3, 7a, 7b; Col. 3, Line 56 – Col. 4, Line 32; Col. 18, Line 26 – Col. 20, Line 45; Col. 3, Line 18 – Col. 4, Line 32